

AMENDMENTS TO CLAIMS

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Currently Amended) A surgical hollow probe for minimally invasive tissue removal, comprising
an elongate hollow body,
a distal opening in the region of the distal end of the hollow body for receiving
tissue, and
an electrically conductive ring-shaped or loop-shaped cutting element is adapted
to be extended from the hollow body and is adapted to be applied to an HF-voltage
source, for electrosurgically cutting out tissue in the area around the distal opening of
the hollow body,
characterised in that the cutting element is adapted to be extended from or pivoted out
of the hollow body transversely with respect to the longitudinal axis of the hollow
body and is then displaceable outside the hollow body along the hollow body: and
~~A surgical hollow probe according to claim 1 characterised characterized~~ in that the
cutting element is in the form of a wire loop whose both ends are secured to a common
or to two separate guide elements which are guided slidably at the outside surface of
the hollow body in longitudinal grooves parallel to the longitudinal axis of the hollow
body .
5. (Currently Amended) A surgical hollow probe according to Claim 4
~~characterised characterized~~ in that the distal opening is provided in ~~the-a~~ peripheral
wall of the hollow body between the longitudinal grooves .
6. (Cancelled)
7. (Cancelled)

8. (Currently Amended) A surgical hollow probe according to claim 4 characterised characterized in that the distal opening of the hollow body is arranged adjacent to the longitudinal groove or grooves.

9. (Cancelled)

10. (Currently Amended) A surgical hollow probe according to claim 4 characterised characterized in that the guide elements are in the form of thrust rods which extend from the distal end to the proximal end of the hollow body and which is/are supported slidably and rotatably in the longitudinal grooves .

11. (Cancelled)

12. (Currently Amended) A surgical hollow probe for minimally invasive tissue removal, comprising

an elongate hollow body,

a distal opening in the region of the distal end of the hollow body for receiving tissue, and

an electrically conductive ring-shaped or loop-shaped cutting element is adapted to be extended from the hollow body and is adapted to be applied to an HF-voltage source, for electrosurgically cutting out tissue in the area around the distal opening of the hollow body,

characterised in that the cutting element is adapted to be extended from or pivoted out of the hollow body transversely with respect to the longitudinal axis of the hollow body and is then displaceable outside the hollow body along the hollow body; and A surgical hollow probe according to claim 1 characterised characterized in that provided at at least one of the distal or end and/or at the proximal end ends of the displacement travel, in the peripheral wall of the hollow body in the peripheral direction is a gap through which the cutting element is adapted to extend from and retract into the hollow body .

13. (Currently Amended) A surgical hollow probe for minimally invasive tissue removal, comprising

an elongate hollow body,

a distal opening in the region of the distal end of the hollow body for receiving tissue, and

an electrically conductive ring-shaped or loop-shaped cutting element is adapted to be extended from the hollow body and is adapted to be applied to an HF-voltage source, for electrosurgically cutting out tissue in the area around the distal opening of the hollow body,

characterised in that the cutting element is adapted to be extended from or pivoted out of the hollow body transversely with respect to the longitudinal axis of the hollow body and is then displaceable outside the hollow body along the hollow body, and A surgical hollow probe according to claim 1 characterised characterized in that the distal opening is closable by means of a closure .

14. (Currently Amended) A surgical hollow probe according to Claim 13 characterised characterized in that the closure is mounted displaceably in at least one of the radial and/or in the axial direction directions along the peripheral wall of the hollow body .

15. (Cancelled)

16. (Currently Amended) A surgical hollow probe for minimally invasive tissue removal, comprising

an elongate hollow body,

a distal opening in the region of the distal end of the hollow body for receiving tissue, and

an electrically conductive ring-shaped or loop-shaped cutting element is adapted to be extended from the hollow body and is adapted to be applied to an HF-voltage source, for electrosurgically cutting out tissue in the area around the distal opening of the hollow body,

characterised in that the cutting element is adapted to be extended from or pivoted out of the hollow body transversely with respect to the longitudinal axis of the hollow body and is then displaceable outside the hollow body along the hollow body; and characterised by a suction removal device which is adapted to be connected to the proximal end of the hollow probe for sucking the cut-out tissue into the distal opening and for sucking the tissue away through the hollow passage of the hollow body to the proximal opening of the hollow probe; and A surgical hollow probe according to claim 13 characterised characterized in that the hollow body includes a separate suction air passage which extends from the proximal connection of the suction removal device in the longitudinal direction to the distal opening and which is in suction communication over its an entire length thereof with the hollow passage of the hollow body by way of suction openings.

17. (Currently Amended) A surgical hollow probe for minimally invasive tissue removal, comprising

an elongate hollow body,
a distal opening in the region of the distal end of the hollow body for receiving tissue, and

an electrically conductive ring-shaped or loop-shaped cutting element is adapted to be extended from the hollow body and is adapted to be applied to an HF-voltage source, for electrosurgically cutting out tissue in the area around the distal opening of the hollow body,

characterised in that the cutting element is adapted to be extended from or pivoted out of the hollow body transversely with respect to the longitudinal axis of the hollow body and is then displaceable outside the hollow body along the hollow body A surgical hollow probe according to claim 1 characterised characterized in that the distal end of the hollow probe converges to a point.

18. (Currently Amended) A surgical hollow probe for minimally invasive tissue removal, comprising

an elongate hollow body,
a distal opening in the region of the distal end of the hollow body for receiving tissue, and

an electrically conductive ring-shaped or loop-shaped cutting element is adapted to be extended from the hollow body and is adapted to be applied to an HF-voltage source, for electrosurgically cutting out tissue in the area around the distal opening of the hollow body,

characterized in that the cutting element is adapted to be extended from or pivoted out of the hollow body transversely with respect to the longitudinal axis of the hollow body and is then displaceable outside the hollow body along the hollow body; and

A surgical hollow probe according to claim 1 characterised characterized in that an electrode is arranged on the a surface of the hollow body in the region of the distal end and that characterized in that an HF-voltage source is adapted to be connected with one terminal to the electrode and with the other a second terminal to the cutting element, in order locally to limit the HF-current through the tissue.

19. (Currently Amended) A surgical hollow probe for minimally invasive tissue removal, comprising

an elongate hollow body,

a distal opening in the region of the distal end of the hollow body for receiving tissue, and

an electrically conductive ring-shaped or loop-shaped cutting element is adapted to be extended from the hollow body and is adapted to be applied to an HF-voltage source, for electrosurgically cutting out tissue in the area around the distal opening of the hollow body,

characterized in that the cutting element is adapted to be extended from or pivoted out of the hollow body transversely with respect to the longitudinal axis of the hollow body and is then displaceable outside the hollow body along the hollow body; and A surgical hollow probe according to claim 1 characterised characterized in that arranged on the surface of the hollow body in the region of the distal end are a first electrode and at an axial spacing a second electrode, to which HF-voltage is adapted to be applied in order to heat the adjoining tissue upon insertion of the probe.

20. (Currently Amended) A surgical hollow probe according to claim 19 characterised characterized in that the first electrode and the second electrode are of a cylindrical shape around the longitudinal axis .

21. (Currently Amended) A surgical hollow probe according to claim 19 characterised in that at least one of the first and/or the second electrode electrodes are axially displaceable.

22. (Currently Amended) A surgical hollow probe according to claim 19, characterised in that the second electrode is arranged on a sleeve which is axially displaceable on the hollow body .

23. (Currently Amended) A surgical hollow probe according to claim 19 characterised in that at least one of the first electrode and the one and/or the second electrode serves as a counterpart electrode for the cutting element (10).

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (New) A surgical hollow probe for minimally invasive tissue removal, comprising

an elongate hollow body,

a distal opening in the region of the distal end of the hollow body for receiving tissue, and

an electrically conductive ring-shaped or loop-shaped cutting element is adapted to be extended from the hollow body and is adapted to be applied to an HF-voltage source, for electrosurgically cutting out tissue in the area around the distal opening of the hollow body,

characterised in that the cutting element is adapted to be extended from or pivoted out of the hollow body transversely with respect to the longitudinal axis of the hollow body and is then displaceable outside the hollow body along the hollow body: and

characterised in that the cutting element is in the form of a wire loop whose both ends are secured to a common or to two separate guide elements which are guided slidably

at the outside surface of the hollow body in one or more longitudinal grooves parallel to the longitudinal axis of the hollow body .

28. (New) A surgical hollow probe according to claim 27 characterised in that the distal opening of the hollow body is arranged adjacent to the longitudinal groove or grooves.

29. (New) A surgical hollow probe according to claim 27, characterized in that the guide elements are in the form of thrust rods which extend from the distal end of the proximal end of the hollow body and which is/are supported slidably and rotatably in the longitudinal groove or grooves.